# Material Safety Data Sheet

**Glu1-Fibrinopeptide B**

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## 1. Identification of the material and supplier

<table>
<thead>
<tr>
<th>Names</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Glu1-Fibrinopeptide B</td>
</tr>
<tr>
<td>Product part number</td>
<td>4454980</td>
</tr>
<tr>
<td>Kit name</td>
<td>LC/MS Peptide Calibration Kit</td>
</tr>
<tr>
<td>Kit part number</td>
<td>4465867</td>
</tr>
<tr>
<td>Material uses</td>
<td>For research use only. Not for use in diagnostic procedures.</td>
</tr>
<tr>
<td>ADG</td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>AB SCIEX Australia Pty Ltd</td>
</tr>
<tr>
<td></td>
<td>PO BOX 514</td>
</tr>
<tr>
<td></td>
<td>Mt Waverley, Victoria, 3149 Australia</td>
</tr>
<tr>
<td></td>
<td>Phone: 1300 62 7777</td>
</tr>
<tr>
<td>Emergency telephone number</td>
<td>Chemtrec: 1-800-424-9300 (24H)</td>
</tr>
<tr>
<td></td>
<td>1-877-740-2129 (8:30A PT - 5:00P PT)</td>
</tr>
<tr>
<td>Product type</td>
<td>Powder.</td>
</tr>
</tbody>
</table>

## 2. Hazards identification

<table>
<thead>
<tr>
<th>Classification: Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk phrases: Not classified.</td>
</tr>
<tr>
<td>Statement of hazardous/dangerous nature: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.</td>
</tr>
</tbody>
</table>

## 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name</td>
<td>Fibrinopeptide B(human), 1-L-glutamic acid- (9CI)</td>
</tr>
<tr>
<td>CAS number</td>
<td>103213-49-6</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C66H95N19O26</td>
</tr>
</tbody>
</table>

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First-aid measures

### First-aid measures

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td>Protection of first-aider</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Advice to doctor</td>
<td>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
</tbody>
</table>
5. Fire-fighting measures

Extinguishing media

Suitable : Use dry chemical powder.
Not suitable : Do not use water jet.
Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fine dust clouds may form explosive mixtures with air.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Storage : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Combustible liquid : Not applicable.

Version : 1
8. Exposure controls/personal protection

Occupational exposure limits: No exposure standard allocated.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Exposure controls

Engineering measures: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state: Solid. [Powder.]

Colour: Not available.

Odour: Not available.

Boiling point: Not available.

Melting point: Not available.

Vapour pressure: Not available.

Flash point: Not available.

Flammable limits: Not available.

Vapour density: Not available.

pH: Not available.

Viscosity: Not available.

Auto-ignition temperature: Not available.

Solubility: Not available.
10. Stability and reactivity

**Chemical stability**
- The product is stable.

**Possibility of hazardous reactions**
- Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**
- Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.

**Materials to avoid**
- Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous decomposition products**
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

**Potential acute health effects**

**Inhalation**
- Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion**
- No known significant effects or critical hazards.

**Skin contact**
- No known significant effects or critical hazards.

**Eye contact**
- Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

**Acute toxicity**
- **Conclusion/Summary**: Not available.

**Potential chronic health effects**

**Chronic toxicity**
- **Conclusion/Summary**: Not available.

**Irritation/Corrosion**
- **Conclusion/Summary**: Not available.

**Sensitiser**
- **Conclusion/Summary**: Not available.

**Carcinogenicity**
- **Conclusion/Summary**: Not available.

**Mutagenicity**
- **Conclusion/Summary**: Not available.

**Teratogenicity**
- **Conclusion/Summary**: Not available.

**Reproductive toxicity**
- **Conclusion/Summary**: Not available.

**Chronic effects**
- Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**Carcinogenicity**
- No known significant effects or critical hazards.

**Mutagenicity**
- No known significant effects or critical hazards.

**Teratogenicity**
- No known significant effects or critical hazards.

**Developmental effects**
- No known significant effects or critical hazards.

**Fertility effects**
- No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Inhalation**
- Adverse symptoms may include the following:
  - respiratory tract irritation
  - coughing

**Ingestion**
- No specific data.
Glu1-Fibrinopeptide B

11. Toxicological information

Skin : No specific data.

Eyes : Adverse symptoms may include the following:
      irritation
      redness

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity : Not available.

Conclusion/Summary : Not available.

Other ecological information : Not available.

Persistence/degradability : Not available.

Conclusion/Summary : Not available.

13. Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

International transport regulations

ADG/ADR/IMDG/IATA : Not regulated.

15. Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

No listed substance

Australia inventory (AICS) : Not determined.

EU Classification : Not classified.

16. Other information

Person who prepared the MSDS : Atrion Regulatory Services, Inc.

Date of previous issue : No previous validation.

Date of issue/ Date of revision : 25/01/2012.

Version : 1

Disclaimer

Indicates information that has changed from previously issued version.
16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.